

Non-Secure Item*Non-Secure Item***Non-Secure Item***Non-Secure Item**
ISTEP+ Applied Skills Sample for Classroom Use
Math – Grade 4
(Constructed-Response)

Part A

1 kilogram = 1,000 grams

John's pumpkin has a mass of 2 kilograms. The mass of Greg's pumpkin is 500 grams less than John's pumpkin. What is the mass, in grams, of Greg's pumpkin?

Show All Work

_____ grams

Part B

John thinks the mass of the two pumpkins, in grams, is greater than 3,000 grams. Use words, numbers, and/or symbols to explain if John is correct.

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Content Standard: 4.M.3: Use the four operations (addition, subtraction, multiplication and division) to solve real-world problems involving distances, intervals of time, volumes, masses of objects, and money. Include addition and subtraction problems involving simple fractions and problems that require expressing measurements given in a larger unit in terms of a smaller unit.			
Process Standards: 1, 3			
Item Type: Constructed-Response	Pts: 2	DOK: 2	Grade: 4

Exemplary Response:

- $2,000 - 500 = 1,500$
- Or other valid process
AND
- 1,500 grams

AND

- Yes, the mass of the two pumpkins is 3,500 grams, which is greater than 3,000 grams.
OR
- $2,000 \text{ grams} + 1,500 \text{ grams} = 3,500 \text{ grams}$. $3,500 > 3,000$
OR
- Other valid response